

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 27042	FOR FURTHER see Form PCT/ISA/220 ACTION as well as, where applicable, item 5 below.			
International application No. PCT/IL04/00091	ACTION as well as, who International filing date (day/month/year) 29 January 2004 (29.01.2004)	(Earliest) Priority Date (day/month/year) 29 January 2003 (29.01.2003)		
Applicant YISSUM RESEARCH DEVELOPMENT COMPANY OF THE HEBREW UNIVERSITY OF JERUSALEM				
This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau. This international search report consists of a total of sheets. It is also accompanied by a copy of each prior art document cited in this report. 1. Basis of the Report a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item. The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)). b. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, see Box No. I. Certain claims were found unsearchable (See Box No. II) 3. Unity of invention is lacking (See Box No. III) 4. With regard to the title,				
the text is approved as subn	nitted by the applicant. d by this Authority to read as follows:			
	nitted by the applicant. d, according to Rule 38.2(b), by this Authori one month from the date of mailing of this in			
as suggested by the	e published with the abstract is Figure No. 3E applicant. Authority, because the applicant failed to sugatherity, because this figure better characters.	egest a figure.		

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Box IV TEXT OF THE ABSTRACT (Continuation of Item 5 of the first sheet)

The technical features mentioned in the abstract do not include a reference sign between parentheses (PCT Rule 8.1(d)).

NEW ABSTRACT

A laser power grid for operation with data networks employs WDM and incorporates wavelength addressing. The laser power grid (100) includes a laser power supply station (110) comprising a plurality of continuous-work laser sources (112, 114, 115, 116, 118), a laser distribution grid (130) for distributing light propagations of different wavelengths throughout a data network and an optical switching network (142, 144, 145, 146, 148) coupled to the laser distribution grid for locally turning the laser power on when it is needed. The laser power grid replaces systems of tunable lasers. It is considerably faster and cheaper than systems of tunable lasers and produces less waste heat within the data network surroundings. The laser power grid incorporates parallel fast optical communication in complex multi-node communication and computer networks and enables the implementation of burst switching and packet switching by wavelength addressing.

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International application No.

PCT/IL04/00091

A. CLASSIFICATION OF SUBJECT MATTER IPC(7) : H04B 10/04, 10/12					
US CL: 398/200,201 According to International Patent Classification (IPC) or to both national classification and IPC					
		by alassification armbala)			
Minimum documentation searched (classification system followed by classification symbols) U.S.: 398/200,201					
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched					
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)					
C. DOCUMENTS CONSIDERED TO BE RELEVANT					
Category *	Citation of document, with indication, where ap		Relevant to claim No.		
Y	US 5,999,291 A (ANDERSON) 07 December 1999	(07.12.1999), FIG. 1.	1-12,43		
Α			13-39,42		
Υ	US 2002/0085594 A1 (PEZESHKI et al) 04 July 20	02 (04.07.2002), FIG. 2.	1-12,43		
Α			13-39,42		
Y	WO 00/02098 A1 (AGRANAT et al) 13 January 2000 (13.01.2000), FIG. 1.		5-6		
Y	US 2002/0159688 A1 (KIM et al) 31 October 2002 (31.10.2002), FIG. 10.		8-9,43		
Y	US 6,501,866 B2 (THOMAS) 31 December 2002 (31.12.2002), FIG. 6.		12		
Y	US 6,141,126 A (LAHAT et al) 31 October 2000 (31.10.2000), FIG. 1.		40-41		
Y	US 6,411,418 B1 (DERI et al) 25 June 2002 (25.06.2002), FIG. 2.		40-41		
		· .			
Further documents are listed in the continuation of Box C. See patent family annex.					
Special categories of cited documents: "T" later document published after the international filing date or prio date and not in conflict with the application but cited to understand the principle or theory underlying the invention			ation but cited to understand the		
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specified) "O" document referring to an oral disclosure, use, exhibition or other means		considered to involve an inventive step combined with one or more other such being obvious to a person skilled in the	documents, such combination		
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18 November 2004 (18.11.2004)					
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